



10  
E  
C  
PATENT  
6-3-03

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of: Ronaldson et al.

Attorney Docket No.: UDL1P044C1

Application No.: 10/075,965

Examiner: Behrend, H.

Filed: February 13, 2002

Group: 3641

Title: MONITORING A SAMPLE CONTAINING A NEUTRON SOURCE Confirmation No.: 1141



**CERTIFICATE OF MAILING**

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on May 22, 2003.

Signed: \_\_\_\_\_

Laura M. Dean

**RESPONSE TO RESTRICTION REQUIREMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

**IN THE CLAIMS**

Please add new claim 33.

**RECEIVED**  
MAY 30 2003  
**GROUP 3600**

33. (New) A method of monitoring a sample containing a neutron source having a neutron source mass, comprising:

analyzing signals from a plurality of neutron detectors;

determining a single incidence neutron count rate ( $R_1$ ), a double incidence neutron count rate ( $R_2$ ), and a triple incidence neutron count rate ( $R_3$ ) associated with the neutron source based upon the analyzing;

05/28/2003 SZEWDIE1 00000135 10075965

05/29/2003 SZEWDIE1 00000006 10075965

01 FC:1201  
02 FC:1202

84.00 OP  
18.00 OP

01 FC:1201  
02 FC:1202

~~04.00 OP~~  
~~10.00 OP~~